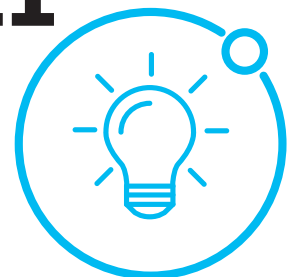




**ISOLED®**  
CUSTOMISED LIGHT SOLUTIONS

FOOD LIGHTING

# 3-PHASE TRACK & AR111 SPOTLIGHT



PRODUCT WORLD

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## FOOD LIGHTING

### Gentle food staging with light from ISOLED®

Specially designed for the illumination of fresh food (such as bread, meat, fruit and vegetables) in retail stores, the LED 3-phase track spotlights and AR111 LED light sources.



### Lowest heat emission

Traditional luminaires/illuminants generate a high level of heat, which can lead to the formation of condensation, especially in packaged meat and sausage products. This can affect the quality and shelf life of the goods. The LED 3-phase track spotlights and LED illuminants AR111 of ISOLED® are passively cooled and are therefore no danger for the quality of the goods.

### Color temperature with dominant wavelength

The eye eats with you! The customer only buys what he likes. The LED 3-phase track spotlights and LED illuminants AR111 from ISOLED® emit specific colour temperatures with dominant wavelengths depending on the food. In the example of baked goods, the dominant wavelength of the luminaires and illuminants is 586 nm (CIE: x = 0.4850; y = 0.4117). The bread appears even fresher and crispier.

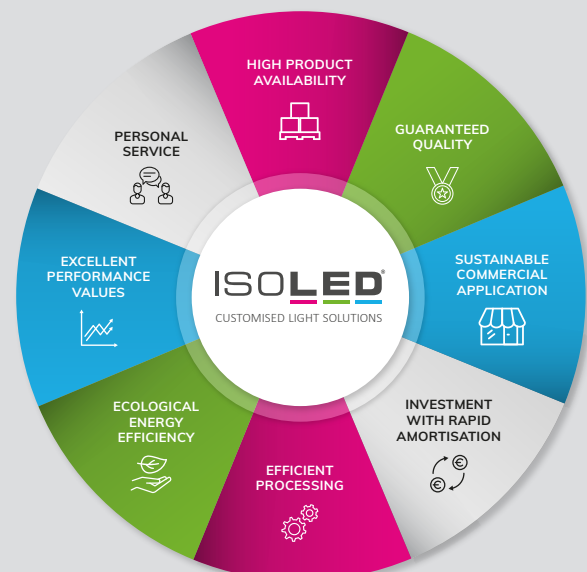
## CUSTOMISED LIGHT SOLUTIONS

SUSTAINABLE EFFICIENCY IMPROVED WITH SMART LED LIGHTING CONCEPTS

ISOLED® offers a standardized LED product range with over 2,200 branded items in

- » best and guaranteed quality,
- » with the greatest possible ecological energy efficiency,
- » with personal service and
- » efficient processing,
- » in a fair price-performance ratio,

with which future-oriented LED lighting solutions as well as intelligent LED lighting concepts with short amortisation times can be realised.





# FOOD LIGHTING

## Focus on natural food colours

In order to be able to present the quality of food visually more attractive and even more appealing to the customer, we offer specially designed LED lights and illuminants. These are equipped with LED chips whose emitted colour spectrum is dominated by deliberately defined wavelengths. This means that selected colour pigments of the illuminated foodstuff are highlighted by the generated light. The natural colours of the products are perceived as more vivid by the human eye.

## Annotation:

The light of our LED luminaires and illuminants neither changes the quality of the food nor manipulates the consumer. The light merely focuses on the naturalness of the product, highlights the corresponding color pigments and increases the attractiveness for human perception.

## Lightsource Test Report

For illustration purposes, here is the test report for the AR111 MEAT LIGHT 30 W (Art. No. 112737).

### PRODUCT INFORMATION

**Product Type:** AR111 **Product Spec:** MeatLight **Product Number:** M1517 **Manufacturer:** FIAI

### CIE COLORIMETRIC PARAMETERS

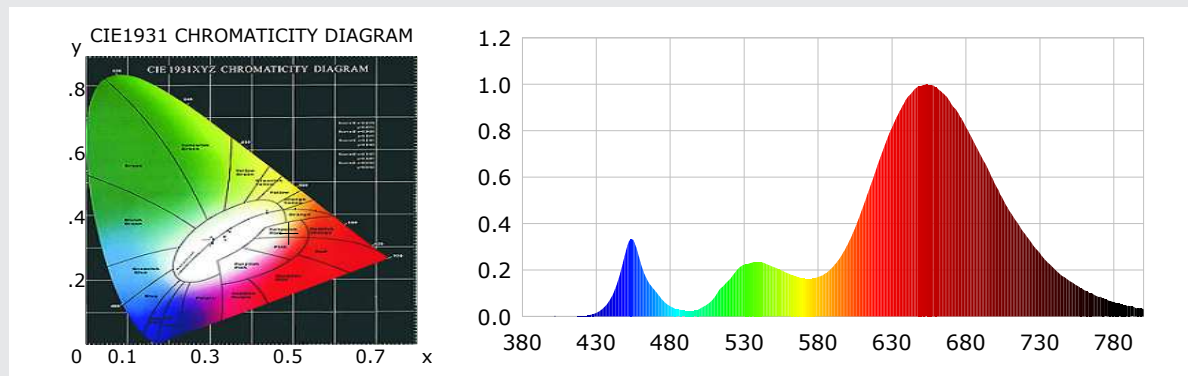
**Chromaticity coordinates**  $x=0.4907$   $y=0.3465$   $u(u')=0.3178$   $v=0.3366$   $v'=0.5049$

**CCT:**  $T_c=1869K$  ( $duv=-0.02331$ ) **Color Ratio:**  $R=0.430$   $G=0.552$   $B=0.019$

**Peak Wavelength:** 653.2nm **Half Bandwidth:** 93.5nm **Dominant Wavelength:** 603.1nm **Color Purity:** 0.512

**CRI:**  $R_a=66.9$ ,  $avgR(1\sim14)=58.7$ ,  $avgR(1\sim15)=58.5$

$R_1=57$   $R_2=75$   $R_3=87$   $R_4=56$   $R_5=55$   $R_6=62$   $R_7=89$   $R_8=55$   $R_9=15$   $R_{10}=59$   $R_{11}=42$   $R_{12}=28$   $R_{13}=55$   $R_{14}=87$   $R_{15}=57$



**Color Quality Scale:**  $Q_a=-1$ ,  $Q_f=-1$ ,  $Q_p=-1$ ,  $Q_g=-1$

$Q_1=75$   $Q_2=82$   $Q_3=75$   $Q_4=77$   $Q_5=66$   $Q_6=49$   $Q_7=40$   $Q_8=56$   $Q_9=76$   $Q_{10}=68$   $Q_{11}=0$   $Q_{12}=67$   $Q_{13}=71$   $Q_{14}=45$   $Q_{15}=73$

### PHOTOMETRIC PARAMETERS

**Luminous Flux:** 837.46 lm **Efficiency:** 29.87 lm/W **Radiant Power:** 5.438 W

**Pupil Flux:** 937.21 Plm **Pupil Lumens Per Watt:** 33.42 Plm/W **Pupil Factor (Kp):** 1.119

### ELECTRIC PARAMETERS

**Voltage:** 230.40V **Current:** 0.1280A **Power:** 28.04W **Power Factor:** 0.9460 **Frequency:** 50.00Hz

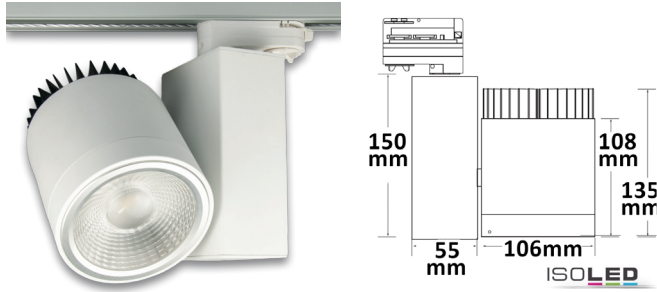
### TEST INFORMATION

**Scan Range:** 380~800:1nm **Photometric Method:** sphere-spectroradiometer **Stabilization Time:** 3 min

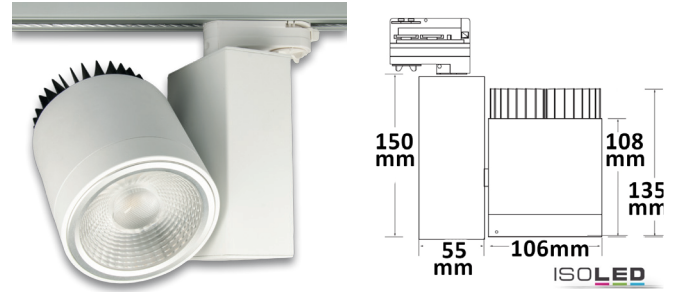
**Photometric Condition:** Sphere diameter: 1.70m, 4PI **Max of Signal:** 45087 (2714) **CCD Integration Time:** 622.46 ms



## 3-phase emitter



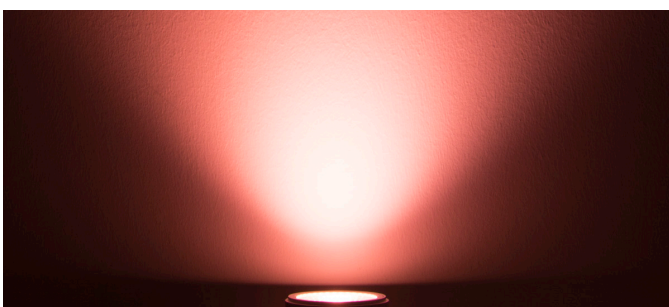
**112739** | 3-PH track spotlight Bread Light, 40W, 30°-50°, white matt, special colour temperature for bakeries and bread showcases with dominant wavelength of 586nm



**112740** | 3-PH track spotlight Fruit Light, 40W, 30°-50°, white matt, special colour temperature for fruits and vegetables with dominant wavelength of 582nm



**112741** | 3-PH track spotlight Meat Light, 40W, 30°-50°, white matt, special colour temperature for meat products with dominant wavelength of 603nm



**112742** | 3-PH track spotlight Fresh Meat Light, 40W, 30°-50°, white matt, with special colour temperature for meat and sausage products with dominant wavelength of 595nm







## LED AR111 Spotlight

Suitable mounting frames optionally available, external plug-in transformer



**112735** | AR111 Bread Light 30W, 35°-50° variable, incl. external VG

special colour temperature for bakeries and bread showcases with dominant wavelength of 586nm



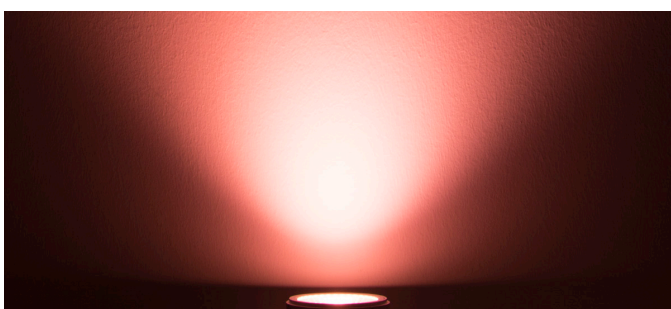
**112736** | AR111 Fruit Light 30W, 35°-50° variable, incl. external VG

special colour temperature for fruits and vegetables with dominant wavelength of 582nm



**112737** | AR111 Meat Light 30W, 35°-50° variable, incl. external VG

special colour temperature for meat products with dominant wavelength of 603nm



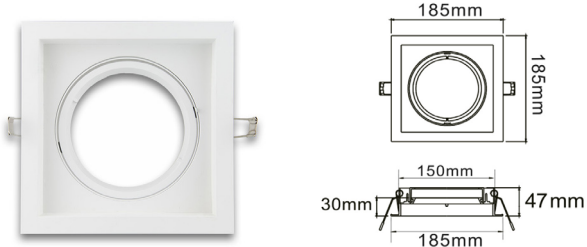
**112738** | AR111 Fresh Meat Light 30W, 35°-50° variable, incl. external VG

special colour temperature for meat and sausage products with dominant wavelength of 595nm



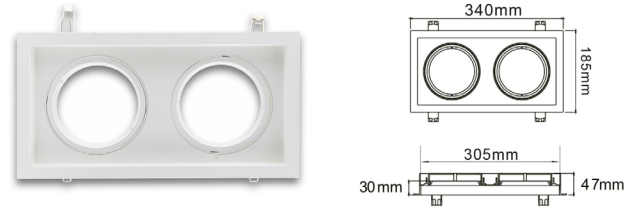


## Mounting frame AR111



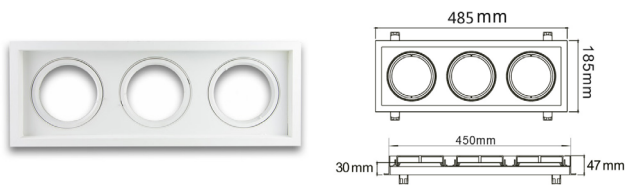
**112576** | AR 111, angular, 1gang, swivelling

Easy installation incl. mounting ring



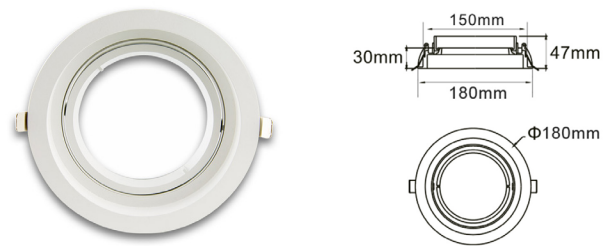
**112577** | AR 111, angular, 2gang, swivelling

Easy installation incl. mounting ring



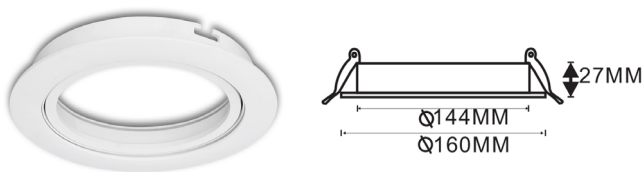
**112578** | AR 111, angular, 3-fold, swivelling

Easy installation incl. mounting ring



**112579** | AR 111, round, flat, recessed, swivelling

Easy installation incl. mounting ring



**112977** | AR111, round, flat, swivelling

Easy installation by means of snap ring

### Your ISOLED® Online portal - much more than "just a webshop"!

Choose from over 2,200 branded articles! On the ordering platform, we present you with the latest and most and always available range of ISOLED® Brand products from our LED series production. Each article is assigned to unique product categories, unmistakably listed with its designation, illustrated with pictures and fully identified with all technical data and sketches.

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**ISOLED® SINCE 2008**



## **ISOLED® AUSTRIA**

FIAI Handels GmbH  
Egerbach 48  
A-6334 SCHWOICH  
AUSTRIA

Tel: +43 5372 219 999

Email: [office@isoled.at](mailto:office@isoled.at)  
[www.isoled.at](http://www.isoled.at)



## **ISOLED® GERMANY**

FIAI Trading GmbH  
Hollerweg 3  
D-85649 BRUNNTHAL  
GERMANY

Tel: +49 228 30 43 89 85

Email: [office@isoled.at](mailto:office@isoled.at)  
[www.isoled.de](http://www.isoled.de)



## **ISOLED® SWITZER- LAND**

Allegra Swiss GmbH  
Einsiedlerstrasse 15a  
CH-8834 SCHINDELLEGI  
SWITZERLAND

Tel: +41 44 787 04 75

Email: [info@isoled.ch](mailto:info@isoled.ch)  
[www.isoled.ch](http://www.isoled.ch)



## **ISOLED® HUNGARIA**

ISOLED® HUNGARIA  
Kft.  
Hunyadi utca 18  
H-8997 Zalaháshágý  
HUNGARY

Tel: +36 20 256 1339

Email: [info@isoled.hu](mailto:info@isoled.hu)  
[www.isoled.hu](http://www.isoled.hu)